BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Improvements to CC Roads and Drains at Chokkanahalli Village in ward No. 05

			Estimate Cost Rs.					9900000.00	
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in Ordinary Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications.MORTH chapter 3. No. 143/ Item No. 19.1/ PWD SR 2018-19	Cum							
	For Culverts		6	6.20	2.10	0.90	70.31		
	Road Surface Chokkanahalli SC/ST Burial Ground Road		1	300.00	6.50	0.30	585.00		
			1	300.00	5.60	0.30	504.00		
	For Slab Drain		1	300.00	0.75	0.75	168.75		
			2	300.00	0.75	0.75	337.50		
	For RCC Drain		1	309.00	0.90	0.90	250.29		
							1915.85	137.80	**264004.00**
	Basic Rate	130.00							
	Area Weightage @ 6%	7.80							
	Total	**137.80**							
2	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc, complete -do- 7.5 cms thick Page No. 27/ Item No. 5.31.1/ PWD SR 2018-19	**Sqm**							
	For New Slab Drain		1	300.00	1.65		495.00		
			2	300.00	1.65		990.00		
							1485.00	742.00	**1101870.00**
	Basic Rate	700.00							
	Area Weightage @ 6%	42.00							
	Total	**742.00**							
5	KSRRB M600-3. Construction of Rolled Cement Concrete mix 1:4:8 OPC cement @180kgs, with 25mm and down size graded granite metal coarse aggregate at 0.85cum and fine aggregates @0.57cum base course with coarse and fine aggregate conforming to IS:383, aggregate cement ratio 12:1 and minimum cement content of 180kg/ cum, aggregate gradation to be as per Table 600-4 after blending, mixing in batching plant at optimum moisture content, transporting to site, laying with a paver with electronic sensor, compacting with 8-10 tonnes smooth wheeled vibratory roller to achieve, the designed flexural strength, finishing and curing complete as per specifications - No. 175/ Item No. 22.3/ PWD SR 2018-19	**Cum**							
	For Culverts		6	6.20	2.10	0.15	11.72		
	RCC Drains		1	309.00	0.90	0.15	41.72		
							53.43	3606.12	**192686.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Basic Rate	3402.00							
	Area Weightage @ 6%	204.12							
	Total	**3606.12**							
4	KSRB 5.2.3 Providing and constructing granite / trap / basalt Size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 Page No. 25/ Item No. 5.6/ PWD SR 2018-19	cum							
	Culverts		6X2	6.20	0.60	0.50	22.32		
							22.32	4871.76	**108738.00**
	Basic Rate	4596.00							
	Area Weightage @ 6%	275.76							
	Total	**4871.76**							
5	KSRB 5.3-3 Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 25/ Item No. 5.9/ PWD SR 2018-19	**Cum**							
	For Culverts		6X2	6.20	0.50	0.45	16.74		
							16.74	**5305.30**	**88811.00**
	Basic Rate	5005.00							
	Area Weightage @ 6%	300.30							
	Total	**5305.30**							
6	KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 17/ Item No. 4.34/ PWD SR 2018-19	**Sqm**							
	For RCC Drains		1X2	309.00	0.60		370.80		
	For Culverts		6	6.20	0.60		22.32		
	For Sides		6X2	6.20	0.23		17.11		
			6X2	1.65	0.23		4.55		
							414.79	**309.52**	**128385.00**
	Basic Rate	**292.00**							
	Area Weightage @ 6%	17.52							
	Total	**309.52**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
7	KSRB 4-1.7 : : Providing and laying in position plain cement concrete of mix 1:3:6 withOPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @0.56cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2/P No. 13/ Item No. 4.7/ PWD SR 2018-19	cum							
	For RCC Drain Vent		1	309.00	0.90	0.15	41.72		
	Culverts		6X2	6.20	0.50	0.15	5.58		
	Vent Bed		6	6.20	0.90	0.15	5.02		
							52.32	5627.54	**294416.00**
	Basic Rate	5309.00							
	Area Weightage @ 6%	318.54							
	Total	**5627.54**							
8	KSRB 15.1.3: Providing FLush pointing to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Page No. 115/ Item No. 15.1/ PWD SR 2018-19	Sqm							
	Culverts		6X2	6.20		0.50	37.20		
							37.20	223.66	**8320.00**
	Basic Rate	211.00							
	Area Weightage @ 6%	12.66							
	Total	**223.66**							
9	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, No. KBS 4.1,4.6, No. 14/ Item No. 4.11/ PWD SR 2018-19	**Cum**							
	For New RCC Drains								
	Bottom Concrete		1	309.00	0.90	0.15	41.72		
	Side Walls		1X2	309.00	0.15	0.75	69.53		
	For Cuvlerts		6	6.20	1.80	0.23	15.40		
							126.64	5998.54	**759660.00**
	Basic Rate	5659.00							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Area Weightage @ 6%	339.54							
	Total	**5998.54**							
10	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 Page No. 18/ Item No. 4.46.2/ PWD SR 2018-19	**Tonne**							
	0.70Ton/Cum		0.070	126.64			**8.86**	75223.96	**666850.00**
	Basic Rate	70966.00							
	Area Weightage @ 6%	4257.96							
	Total	**75223.96**							
11	Precast slab 20mm and down size for slab (including steel reinforcement) including centring and shutterng machine mixed concrete laid in layers not exceeding 15cms thick well compacted cost of all materials labour HOM of machineries curing complete as per specifications c.c 1:1.5:3 Including all cost of Matirial (DATA RATE ENCLOSED) 10cm thick RCC pre cast slab	Sqm							
	For RCC Drain		1	309.00	0.90		278.10		
							278.10	2100.00	**584010.00**
	Data Rate	**2100.00**							
12	KSRRB M300-53: construction of embankment with approved material gravel/murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specifications. (which includes cost of gravel/murrum, watering charges & compaction by vibratory roller) MORTH specification Page No. 147/ Item No. 19.60/ PWD SR 2018-19	Cum							
	Road Surface Chokkanahalli SC/ST Burial Ground Road		1	300.00	6.50	0.30	585.00		
			1	300.00	5.60	0.30	504.00		
							1089.00	**344.50**	**375161.00**
	Basic Rate	325.00							
	Area Weightage @ 6%	19.50							
	Total	**344.50**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
13	KSRRB 400-2: Providing, laying, spreading and compacting specified graded sand, gravel or any other course material in sub base course including premixing the material at OMC in mechanical mixer (pug mill), carriage of mixed material up to 1 km, spreading in uniform layers with motor grader on a prepared base and compacting, with power roller to achieve the desired density including all materials, labour, HOM of machinery, lighting, gurarding, barricading and maintenance of diversion complete as per specifications. MORTH chapter 4. No.153/ Item No. 20.2 / PWD SR 2018-19	Cum							
	Road Surface Chokkanahalli SC/ST Burial Ground Road		1	300.00	6.50	0.35	**682.50**		
			1	300.00	5.95	0.30	**535.50**		
							1218.00	**1322.88**	**1611268.00**
	Basic Rate	1248.00							
	Area Weightage @ 6%	74.88							
	Total	**1322.88**							
14	KSRRB M1400-14.2. Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with 3 wheeled steel / vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening / binding Materials to fill up the interstices of coarse aggregate, watering and compacting to the required density. Material Using Scrining Crushable Type such as Moorum or Gravel Grading - II (Manual) Clause : 404 (P.154/I.20.14.1 PWD SR - 2018-19).								
	Road Surface Chokkanahalli SC/ST Burial Ground Road		1	300.00	6.50	0.15	292.50		
			1	300.00	5.60	0.15	252.00		
	Basic Rate	2192.00					**544.50**	**2323.52**	**1265157.00**
	Area Weightage @ 6%	131.52							
	Total	2323.52							
15	KSRRB M1400-14.5. Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with 3 wheeled steel / vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening / binding Materials to fill up the interstices of coarse aggregate, watering and compacting to the required density. Material Using Scrining Crushable Type such as Moorum or Gravel Grading - III (Manual) Clause : 404 (P.155/I.20.14.3 PWD SR - 2018-19).								

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Road Surface Chokkanahalli SC/ST Burial Ground Road		1	300.00	6.50	0.10	195.00		
			1	300.00	5.60	0.10	168.00		
	Basic Rate	2322.00					**363.00**	**2461.32**	**893459.00**
	Area Weightage @ 8%	139.32							
	Total	2461.32							
16	KSRRB M100-2. Loading and Unloading of stone boulders by manual means complete as per specification MORTH-100/chapter-1 Page No. 136/ Item No. 17.1/ PWD SR 2018-19	Cum							
			Qty. Vide Item No. 1+2				**1915.85**		
							1915.85	60.42	**115756.00**
	Basic Rate	57.00							
	Area Weightage @ 6%	3.42							
	Total	**60.42**							
							Grand Total		**8458551.00**
17	For 12% Applicable GST								1015026.00
18	For 3% KRIDL Charges								253757.00
19	For 1% Labour Cess								84586.00
20	For 1% DPR and PMC Charges								84586.00
20	Miscesallaneous Charges	L/S							**3494.00**
									9900000.00

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2018-19
3 This Estimate Grant under SC-SP/TSP Mukyamantrigala Nava Bengaluru Yojane
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

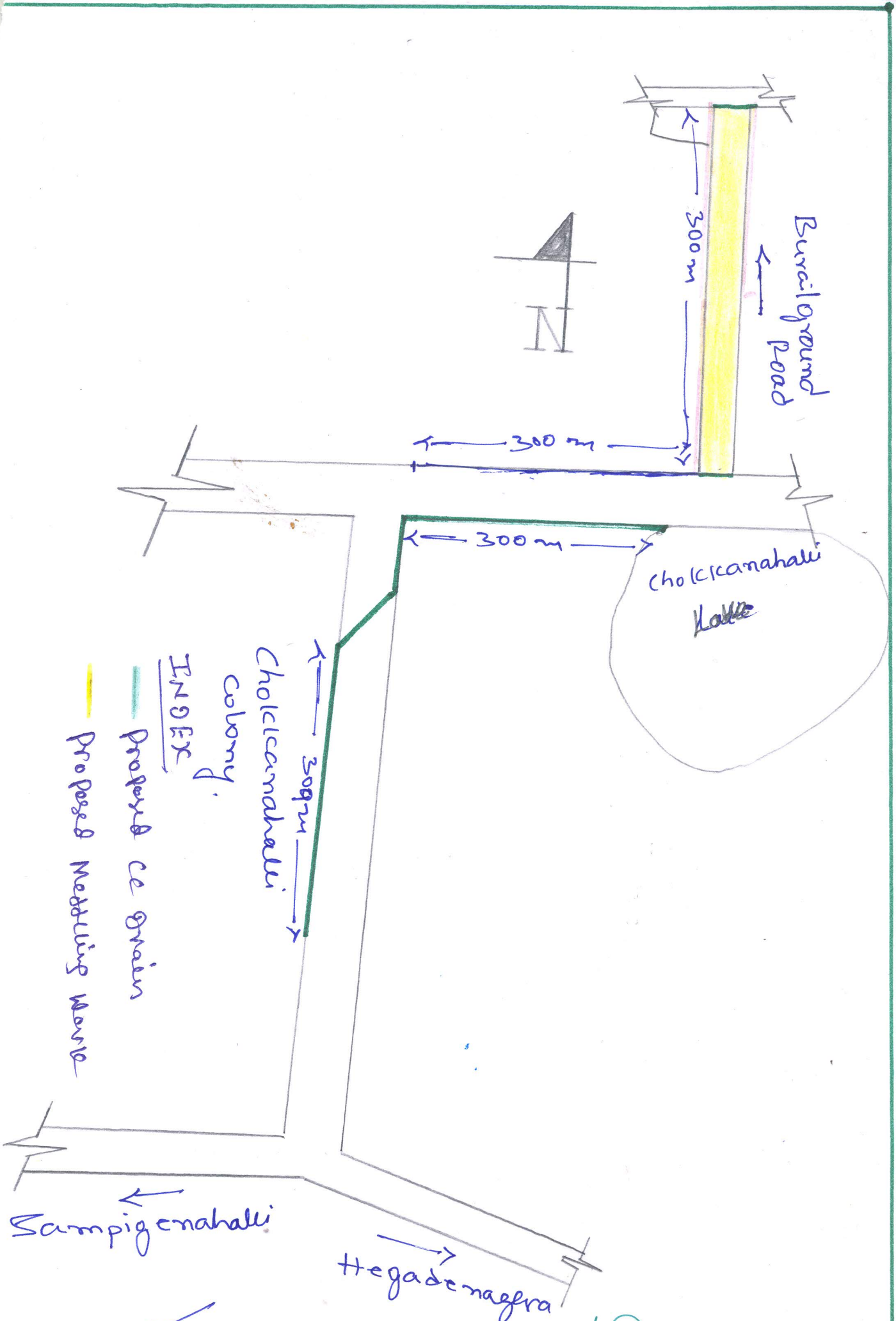
Assistant Engineer
Ward No. 05(Jakkur)

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Assistant Executive Engineer
Byatarayanapura Sub Division

ADMINISTRATIVE APPROVAL
Accorded For Rs. 99.00 Lakhs only
Head of A/c. P3727
Div. Ref. No. 77/19-20 Date. 24-10-19
24/10
AE EE(BTP)

Technical Sanction
Accorded For Rs 99.00 Lakhs
Head of A/C. P3720
CER NO : 132 Dt: 28.10.2019
TA CE (YNK)



ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯ ನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26